INDEX TO VOLUME 29, 1980

AUTHOR INDEX

Adetosoye, A. I. 342
Agar, N. S. 153
Ajufo, J. C. 268
Allen, E. M. 325
Anderson, J. C. 57
Anderson, N. 333
Angus, K. W. 45
Appleby, E. C. 190
Armour, J. 373
Awadhiya, R. P. 120, 172, 203

Baanvinger, T. 135
Balken, J. A. M. van 135
Bannister, D. W. 126
Bansal, G. C. 93
Barger, J. 198
Becker, M. 21
Beglinger, R. 21
Bhatnagar, M. K. 260
Bhattacharyulu, Y. 93
Boughton, E. 378
Bracewell, C. D. 89
Braide, V. B. 111
Brown, C. G. D. 298, 360
Brownlie, J. 128
Bruggman, S. 305
Buckley, L. S. 113
Butler, E. J. 133, 378
Buxton, A. 51

Campbell, N. J. 255
Carthew, P. 289
Chaneet, G. de 370
Chapman, D. I. 105
Chapman, N. G. 105
Chhabra, P. C. 148
Choudhuri, P. C. 118
Church, D. B. 353
Coackley, W. 248
Coles, G. C. 122
Cooke, R. G. 77, 251
Cranwell, P. D. 85
Craven, N. 57
Cullen, L. K. 266, 277, 281
Curtis, M. J. 133, 378

D'Mello, J. P. F. 126
David, L. L. 260
De Chaneet, G. 370
De Leeuw, P. W. 135, 142
Donaldson, A. I. 315
Doy, T. G. 98
Drew, T. W. 394
Duin, C. Th. M. van 116

Eales, F. A. 211
Edwards, J. R. 370
Eghianruwa, K. I. 111
Eliens, D. J. 135, 142
Evans, J. 346

Farebrother, D. 198
Ferris, N. P. 315
Ford, E. J. H. 346
Franssen, F. F. J. 320
Fujinaga, T. 230

Gemmell, M. A. 131
Gill, B. S. 93
Goel, M. C. 148
Grootenhuis, J. G. 219
Groothuis, D. G. 116
Gunawan, M. 26, 31

Haghdoost, I. Sohrabi- 190
Hall, C. A. 181, 186
Haller, R. D. 219
Hammond, J. A. 310
Hansky, J. 85
Harness, E. 98
Haroun, E. M. 310
Heath, D. D. 388
Hennessy, D. 333
Hill, R. 68
Hodges, R. D. 68
Holman, P. J. 383
Hoorens, J. 390
Howard, C. J. 128
Howell, M. J. 124, 255
Hughes, D. L. 98

Ibrahim, I. K. 68
Ishihara, T. 230
Ito, Y. 162

James, J. A. 198
Jessett, D. M. 168, 235
Johnstone, P. D. 131
Jones, R. S. 266, 277, 281
Jongejan, F. 320, 392

Kaaya, G. P. 63
Karstad, L. 168, 219, 235
Kaur, D. 93
Kelly, J. D. 26, 31
Kent, J. E. 105
Knifton, A. 77, 251
Knowles, N. J. 113
Kolte, G. N. 120, 172, 203
Kommerij, R. 142
Kono, Y. 157, 162

Laby, R. H. 333
Lalor, P. A. 248
Lawrence, J. A. 1
Leeuw, P. W. de 135, 142
Liptrap, R. M. 240
Little, T. W. A. 41
Lloyd, L. C. 8
Luckins, A. G. 360

McDonell, P. A. 181, 186
McHardy, N. 198
Mackenzie, J. S. 248
Maker, D. 248
Maner, J. H. 271
Martin, I. C. A. 181, 186
Maxie, M. G. 63
Maxwell, M. H. 293
Melrose, T. R. 298
Miert, A. S. J. P. A. M. van 116
Minami, T. 230
Misra, S. K. 118
Mitchell, G. B. B. 373
Moerman, A. 135
Morrison, W. I. 219
Msolla, P. M. 325
Murphy, G. M. 367
Murray, M. 219
Mushi, E. Z. 168, 235

Nicolet, J. 305

O'Dea, J. D. 153
Oakley, G. A. 395
Onawunmi, O. A. 122
Osborn, P. J. 388
Oudemans, G. 131

Parmeter, S. N. 388
Paroz, P. 305
Parsons, D. G. 89
Parsons, G. 89
Pearson, A. W. 378
Perić, N. M. 320
Phillips, J. E. 51
Pike, B. V. 108
Porter, C. J. 26, 31
Prichard, R. K. 333
Pritchard, D. G. 41

Rae, P. F. 360
Rajasekariah, G. R. 124

Ranaweera, A. 346
Randhawa, S. S. 118
Roberts, C. J. 108
Roeder, P. L. 394
Ronald, N. C. 383
Rossiter, P. B. 235

Sandeman, R. M. 255
Sangster, N. C. 26, 31
Sayer, P. D. 219
Scott, B. W. 133
Sentsui, H. 157, 162
Sewell, M. M. H. 310
Sharma, R. D. 298
Sharman, G. A. M. 36
Shreeve, J. E. 41
Singh, A. 93
Small, J. 211
Smith, V. W. 248
Smith, W. D. 45
Sohrabi-Haghdoost, I. 190
Sparrow, S. 289
Straver, P. J. 135

Talmon, F. P. 142
Taylor, G. 128
Taylor, R. J. 198
Tewe, O. O. 271
Thorns, C. J. 328
Timms, P. 102, 367

Uilenberg, G. 320, 392

Van Balken, J. A. M. 135
Van Winkelhoff, A. J. 392
Vandenberghe, J. 390
Vegad, J. L. 120, 172, 203

Werdler, M. E. B. 116
Whitehead, C. C. 126
Whithear, K. G. 268
Whitlock, H. V. 26, 31
Williams, H. 36
Williamson, J. M. W. 36
Winkelhoff, A. J. van 392
Wood, A. K. W. 8

Yamashiro, S. 260
Young, A. S. 219

Zimmer, G. N. 142

SUBJECT INDEX

Acidosis, experimental ruminal, in buffalo calves, Physicochemical changes in cerebrospinal fluid in 118
Adipocytes, bovine, The metabolic activity of, before and after parturition 108
Adrenal gland, Cortical hyperplasia of, in the dog 190
Ampicillin administered intramuscularly in dwarf goats, Factors affecting the absorption of 116
Anaplasmacide—Comparison of gloxazone, an effective but toxic anaplasmacide with imidocarb dihydrochloride 198
Anthelmintic drugs, Controlled release of: a new concept for prevention of helminthosis in sheep 333
Antibodies to malignant catarrhal fever virus antigens in the sera of normal and naturally infected cattle in Kenya 235
Avian influenza, A virus administered by various routes, The serological response of chickens to 248

Babesia bigemina infection in cattle, Erythrocytic Na^+ and K^+ changes during 367
Babesia—Serological relationship between a large *Babesia* found in Japanese cattle and *Babesia major*, *B bigemina* and *B bovis* 230
Babesia species, Short term cultivation of 102
Bacterial endotoxins and liver haemorrhage in the oestrogenised chicken 378
Biotin status in young pigs, Blood pyruvate carboxylase activity as a criterion of 126
Blood pyruvate carboxylase activity as a criterion of biotin status in young pigs 126
Blowfly strike and wool moisture, The effect of a drying agent (B26) on 186
Blowfly strike, Patterns of wool moisture in merino sheep and its association with 181
Boophilus microplus, A new tick cell line derived from 363
Border disease virus antigen demonstrable by immunofluorescence, Persistence in tissues of 394
Bovine malignant catarrhal fever virus, Isolation of, from ocular and nasal secretions of wildebeest calves 168

Campylobacter species and regional enteritis in lambs 390
Cerebrospinal fluid, Physicochemical changes in, in experimental ruminal acidosis in buffalo calves 118
Cloxacillin, The effects of, on staphylococci phagocytosed by bovine neutrophils 57
Complement fixation, Differentiation of porcine enterovirus serotypes by 113
Corpora lutea, Removal of, in pregnant goats: effect of intrauterine indomethacin 77
Cortical hyperplasia of the adrenal gland in the dog 190
Cowdria ruminantium (Rickettsiales) in primary goat kidney cell cultures 392
Cyanide, protein and iodine interactions in the performance, metabolism and pathology of pigs 271

Deer, fallow, (*Dama dama*), Some serum constituents of 105
Deer—Toxoplasmosis in farmed red deer (*Cervus elaphus*) in Scotland 36
Dictyocaulus viviparus, the recovery of, from bovine lungs by lung perfusion: a modification of Inderbitzen's method 395

Echinococcus granulosus infections in dogs, The effect of route of administration on the efficacy of praziquantel against 131
Egg drop syndrome 1976 virus, Experimental infection of turkeys with, and studies on the application of the haemagglutination inhibition test 89
Endotoxins, Bacterial, and liver haemorrhage in the oestrogenised chicken 378
Enteritis, regional, in lambs and *Campylobacter* species 390
Enterobacteriaceae and *Pseudomonas aeruginosa*, Transmissible drug resistance in human and animal strains of 342
Enterovirus serotypes, porcine, Differentiation of by complement fixation 113
Enzyme assay for detecting resistance to reinfection with the liver fluke *Fasciola hepatica* in rats 124
Enzyme immunoassay, Evaluation of, for serodiagnosis of infections with *Theileria parva* and *T annulata* 360
Eosinophilia, avian, Attempted induction of, using various agents 293
Erythrocytic Na^+ and K^+ changes during *Babesia bigemina* infection in cattle 367
Escherichia coli O78 endotoxin, Effect of, on plasma lipids in the domestic fowl 133

Fallow deer (*Dama dama*), Some serum constituents of 105
Fasciola hepatica, An attempt to vaccinate sheep against, using a juvenile fluke antigen sheep antibody complex 255
Fasciola hepatica in rats, Enzyme assay for detecting resistance to reinfection with 124
Fasciola hepatica, Resistance to, in rats and rabbits following implantation of adult flukes contained in diffusion chambers 310
Fasciola hepatica—The selective adherence of rat eosinophils to newly excysted *Fasciola hepatica in vitro* 98
Foot-and-mouth disease virus, airborne, from infected pigs, Sites of release of 315

Gastrin, Serum, in newborn, sucking and weaned pigs 85
Getah virus infection, An epidemic of, among racehorses: isolation of the virus 157

Getah virus infection, An epidemic of, among racehorses: properties of the virus 162
Gloxazone—Comparison of gloxazone, an effective but toxic anaplasmacide, with imidocarb dihydrochloride 198
Glucose—A comparison of intravenous and oral glucose tolerance tests in the dog 353
Glucose phosphate isomerase isoenzyme patterns in bovine lymphoblastoid cell lines infected with *Theileria annulata* and *T parva*, with an improved enzyme visualisation method using meldola blue 298
Glutathione and 2, 3-diphosphoglycerate in the blood of hypoxic ruminants 153
Glycerol, The utilisation of, by sheep 346

Haemonchus contortus: attempts to immunise lambs with irradiated larvae 45
Haemonchus contortus, Resistance of, to thiophanate 370
Haemophilus species, Isolation of, from the oropharynx of British sheep 41
Haemopoietic differentiation, Kinetics of, assessed by *in vitro* bone marrow culture in endotoxin-treated and in anaemic calves 63
Haemorrhagic liver syndrome in laying fowl fed diets containing rapeseed meal 68
Herpesvirus 1, bovine, Scanning electron microscopy of the tracheal epithelium of calves inoculated with 325
Hyperplasia, Cortical, of the adrenal gland in the dog 190
Hypogalactia, experimental, in sows, Prostaglandin $F_{2\alpha}$ and progesterone in 240
Hypoxic ruminants, Glutathione and 2, 3-diphosphoglycerate in the blood of 153

Imidocarb dihydrochloride, Comparison of gloxazone, an effective but toxic anaplasmacide, with 198
Immobilon and Revivon, Effects of, on the cardiovascular system and acid base status of the Göttingen minipig 21
Immunoglobulin, Surface receptors for, on bovine polymorphonuclear neutrophils and macrophages 128
Immunoglobulins, Normal profile of, in sera and tracheal washings of chickens 148
Immunological relationship between strains of *Theileria annulata* Dschunkowsky and Luhs 1904 93
Indomethacin—Removal of corpora lutea in pregnant goats: effect of intrauterine indomethacin 77
Inflammation, acute, in the chicken, Studies on, using mesentery as a test system 172
Inflammatory reaction, acute, in the chicken skin, A topographical study of increased vascular permeability in 203
Influenza A virus, avian, administered by various routes, The serological response of chickens to 248
Iodine, Cyanide and protein interactions in the performance, metabolism and pathology of pigs 271
Isometamidium residues in goat tissues after parenteral administration 111

Kinetics of haemopoietic differentiation assessed by *in vitro* bone marrow culture in endotoxin-treated and in anaemic calves 63

Levamisole, morantel tartrate and thiabendazole, *Trichostrongylus colubriformis* and *Ostertagia* sp resistant to: infectivity, pathogenicity and drug efficacy in two breeds of sheep 26
Levamisole, morantel tartrate and thiabendazole, *Trichostrongylus colubriformis* and *Ostertagia* sp resistant to: isolation into pure strain and anthelmintic titration 31
Lipids, plasma, in the domestic fowl, Effect of *Escherichia coli* O78 endotoxin on 133
Liver fibrosis, Ultrastructural study of, in turkeys fed diets containing rapeseed meal 260
Liver haemorrhage and Bacterial endoxins in the oestrogenised chicken 378
Liver—Haemorrhagic liver syndrome in laying fowl fed diets containing rapeseed meal 68

Malignant catarrhal fever virus antigens, Antibodies to, in the sera of normal and naturally infected cattle in Kenya 235
Meclofenamic acid, Effect of, on uterine motility and reactivity to oxytocin in goats 251
Metabolism, Summit, in newborn lambs 211
Morantel tartrate, thiabendazole and levamisole, *Trichostrongylus colubriformis* and *Oestertagia* sp resistant to: infectivity, pathogenicity and drug efficacy in two breeds of sheep 26
Morantel tartrate, thiabendazole and levamisole, *Trichostrongylus colubriformis* and *Ostertagia* sp resistant to: isolation into pure strain and anthelmintic titration 31
Muscle—Recording of train-of-four evoked muscle responses from the nose and foreleg in the intact dog 277
Mycoplasma bovis, Effect of serial passages through liquid medium on the virulence of, for the mammary gland 328
Mycoplasma hyopneumoniae, Tween 20 soluble proteins of, as antigen for an enzyme linked immunosorbent assay 305
Mycoplasma synoviae, The surface layer of, as demonstrated by the negative staining technique 268

Neostigmine, The effect of, on suxamethonium induced neuromuscular block in the dog 266
Neuromuscular block, suxamethonium induced, in the dog, The effect of neostigmine on 266
Neuromuscular block—The nature of suxamethonium neuromuscular block in the dog, assessed by train-of-four stimulation 281

Oestrogenised chicken, Bacterial endotoxins and liver haemorrhage in 378
Ostertagia sp and *Trichostrongylus colubriformis* resistant to levamisole, morantel tartrate and thiabendazole: infectivity, pathogenicity and drug efficacy in two breeds of sheep 26

Ostertagia sp and *Trichostrongylus colubriformis* resistant to levamisole, morantel tartrate and thiabendazole: isolation into pure strain and anthelmintic titration 31
Oxytocin in goats, Effect of oral meclofenamic acid on uterine motility and reactivity to 251

Parturition, The metabolic activity of bovine adipocytes before and after 108
Phagocytic activity of chicken thrombocytes, Demonstration of, using colloidal carbon 120
Pigs, Cyanide, protein and iodine interactions in the performance, metabolism and pathology of 271
Pneumonia, enzootic, in the pig, A radiological investigation of 8
Praziquantel, The effect of route of administration on the efficacy of, against *Echinococcus granulosus* infections in dogs 131
Progesterone and Prostaglandin $F_{2\alpha}$ in experimental hypogalactia in sows 240
Prostaglandin $F_{2\alpha}$ and progesterone in experimental hypogalactia in sows 240
Protein, Cyanide and iodine interactions in the performance, metabolism and pathology of pigs 271
Pseudomonas aeruginosa and *Enterbacteriaceae*, Transmissible drug resistance in human and animal strains of 342

Radiological investigation of enzootic pneumonia in the pig 8
Rapeseed meal, Haemorrhagic liver syndrome in laying fowl fed diets containing 68
Rapeseed meal, Ultrastructural study of liver fibrosis in turkeys fed diets containing 260
Revivon and Immobilon, Effects of, on the cardiovascular system and acid base status of the Göttingen minipig 21
Rhipicephalus appendiculatus with *Theileria parva*, Artificial infection of, by percutaneous injection 320
Rotavirus infections in calves: efficacy of oral vaccination in endemically infected herds 142
Rotavirus infections in calves in dairy herds 135

Schistosoma mattheei in the sheep, The pathogenesis of 1
Sendai virus in nude and germ-free rats 289
Serological response of chickens to avian influenza A virus administered by various routes 248
Serum constituents of fallow deer (*Dama dama*) 105
Serum gastrin in newborn, sucking and weaned pigs 85
Skin, chicken, A topographical study of increased vascular permeability in acute inflammatory reaction in 203
Staphylococcal L-phase variants, Isolation of, from the blood and egg yolks of normal chickens 51
Staphylococci phagocytosed by bovine neutrophils, The effects of cloxacillin on 57
Surface receptors for immunoglobulin on bovine polymorphonuclear neutrophils and macrophages 128
Suxamethonium induced neuromuscular block in the dog, The effect of neostigmine on 266
Suxamethonium neuromuscular block, The nature of, in the dog, assessed by train-of-four stimulation 281

Taenia hydatigena, An attempt to immunise dogs against 388
Taenia hydatigena, Attempts to immunise sheep with culture antigens of 122
Taenia saginata, Failure to protect calves against, using antigens prepared from *in vitro* cultivation of the larval stage 373
Theileria annulata and *T parva*, Glucose phosphate isomerase isoenzyme patterns in bovine lymphoblastoid cell lines infected with, with an improved enzyme visualisation method using meldola blue 298
Theileria annulata Dschunkowsky and Luhs 1904, Immunological relationship between strains of 93
Theileria parva and *T annulata*, Evaluation of an enzyme immunoassay for serodiagnosis of infections with 360
Theileria parva with *Rhipicephalus appendiculatus*, Artificial infection of, by percutaneous injection 320
Theileriosis, Fatal, in eland (*Taurotragus oryx*): pathology of natural and experimental cases 219
Thiabendazole, levamisole and morantel tartrate, *Trichostrongylus colubriformis* and *Ostertagia* sp resistant to: infectivity, pathogenicity and drug efficacy in two breeds of sheep 26
Thiabendazole, levamisole and morantel tartrate, *Trichostrongylus colubriformis* and *Ostertagia* sp resistant to: isolation into pure strain and anthelmintic titration 31
Thiophanate, Resistance of *Haemonchus contortus* to 370
Thrombocytes, chicken, Demonstration of the phagocytic activity of, using colloidal carbon 120
Toxoplasmosis in farmed red deer (*Cervus elaphus*) in Scotland 36
Transmissible drug resistance in human and animal strains of *Enterobacteriaceae* and *Pseudomonas aeruginosa* 342
Trichostrongylus colubriformis and *Ostertagia* sp resistant to levamisole, morantel tartrate and thiabendazole: infectivity, pathogenicity and drug efficacy in two breeds of sheep 26
Trichostrongylus colubriformis and *Ostertagia* sp resistant to levamisole, morantel tartrate and thiabendazole: isolation into pure strain and anthelmintic titration 31
Turkeys, Experimental infection of, with egg drop syndrome 1976 virus and studies on the application of the haemagglutination inhibition test 89
Tween 20 soluble proteins of *Mycoplasma hyopneumoniae* as antigen for an enzyme linked immunosorbent assay 305

Uterine motility and reactivity to oxytocin in goats, Effect of oral meclofenamic acid on 251

Wool moisture and blowfly strike, The effect of a drying agent (B26) on 186
Wool moisture, Patterns of, in merino sheep, and its association with blowfly strike 181